

**Practice**

For use with pages 204–209

**Write the number in scientific notation.**

1. 1250

2. 205,000

3. 0.0035

4. 0.00058

5. 5,220,000

6. 0.000064

**Write the number in standard form.**

7.  $5.3 \times 10^2$

8.  $7.2 \times 10^{-2}$

9.  $4.3 \times 10^{-3}$

10.  $1.2 \times 10^5$

11.  $9.45 \times 10^{-5}$

12.  $6.32 \times 10^6$

**Complete the statement using <, >, or =.**

13.  $1.8 \times 10^2$  \_\_\_\_ 1800

14. 43,000 \_\_\_\_  $4.3 \times 10^3$

15.  $6.9 \times 10^{-3}$  \_\_\_\_ 0.0068

16.  $1.8 \times 10^{-4}$  \_\_\_\_ 0.0018

**Find the product. Write your answer in scientific notation.**

17.  $(6 \times 10^2)(3 \times 10^3)$

18.  $(4.5 \times 10^3)(2 \times 10^4)$

19.  $(4 \times 10^{-3})(2.4 \times 10^7)$

20.  $(2.5 \times 10^{-2})(5 \times 10^{-3})$

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- 21.** The sun has a diameter of  $1.39 \times 10^6$  kilometers. The diameter of Earth is  $1.28 \times 10^4$  kilometers. How many times larger is the sun's diameter than the Earth's diameter? Give your answer in scientific notation.

**Order the numbers from least to greatest.**

- 22.** 2400;  $2.5 \times 10^2$ ;  $2.3 \times 10^3$       **23.**  $4.8 \times 10^5$ ; 481,000;  $4.7 \times 10^5$
- 24.** 0.036;  $3.5 \times 10^{-2}$ ;  $3.7 \times 10^{-2}$       **25.**  $8.3 \times 10^{-4}$ ; 0.0084;  $8.2 \times 10^{-4}$

**Write the number in scientific notation.**

- 26.** Volume (in cubic kilometers) of water in Lake Michigan: 4920
- 27.** Approximate density (in grams per milliliter) of one helium atom:  
0.0001787

**Write the number in standard form.**

- 28.** Floor area (in square meters) of the Sears Tower in Chicago:  $4.16 \times 10^5$
- 29.** Approximate width (in meters) of a United States dollar bill:  
 $6.6294 \times 10^{-2}$
- 30.** Volume (in cubic meters) of a mole of helium atoms:  $2.1 \times 10^{-5}$